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1 atgttgctgatcaactttcatcgctgtctggagtgatctactgtctccatttg
1 Met Leu Leu Ile Asn Phe Phe Ile Ala Val Leu Gly Val Ile Ser Leu Ser Pro Ile Val
61 gttgctcgatatttcgacgagattgactacagttacggcttgcctccctgag
21 Val Ala Arg Tyr Ile Leu Arg Arg ¹Asp Cys Thr Thr Val Thr Val Leu Ser Ser Pro Glu
121 tctgtgacgagttcgaaaccatgttcagctagccagtcatgagatgtgcacagttaccc
41 Ser Val Thr Ser Ser Asn His Val Gtr Leu Ala Ser His Glu Met Cys Asp Ser Thr Leu
181 tcagcgcccttatataatctacaatgtgattatgataagattgtgacactttattatctt
61 Ser Ala Ser Leu Tyr Ile Tyr Asn Asp Tyr Asp Lys Ile Val Thr Leu Tyr Tyr Leu
241 acatcgccggcacaactgggtccgtAACAGCCTTCTAGTTGAGTAACAC
81 Thr Ser Ser Gly Thr Gly Ser Val Thr Ala Ser Tyr Ser Ser Leu Ser Asn Asn
301 tggaaattgtggtctctccggctcgagatgtcgagatcactggagctgt
101 Trp Glu Leu Trp Ser Leu Ser Ala Pro Ala Ala Asp Ala Val Glu Ile Thr Gly Ala Ser
361 tatgttagacagcgatgcacatctgcacatacgccacgtttgatatacctttactacc
121 Tyr Val Asp Ser Asp Ala Ser Ala Thr Tyr Ala Thr Ser Phe Asp Ile Pro Leu Thr Thr
421 acgacaacgtcgtcttcgttagtgcgactcaacatctgttaaccacaacatct
141 Thr Thr Thr Ser Ser Ser Ala Ser Ala Ser Thr Ser Leu Thr Thr Ser
481 agtgttccatttcgggtccgtccctacaggaacagctgcaaattggcgaggtaggct
161 Ser Val Ser Ile Ser Val Pro Thr Gly Thr Ala Ala Asn Trp Arg Gly Arg Ala
541 atctatcagatcgtgactgatagattgcacgcactgacggctccaccacatattatgc
181 Ile Tyr Glu Ile Val Thr Asp Arg Phe Ala Arg Thr Asp Gly Ser Thr Thr Tyr Leu Cys
601 gatgttaccgatagggtctattgcggagggtcttcatcagggattatcaatatgtggat
201 Asp Val Thr Asp Arg Val Tyr Cys Gly Ser Tyr Glu Gly Ile Ile Asn Met Leu Asp
661 tacatccaaggcatggcttactgctattggatttcctatagtggaaaatattccc
221 Tyr Ile Gtr Gly Met Gly Phe Thr Ala Ile Trp Ile Ser Pro Ile Val Glu Asn Ile Pro
721 gatgacaccggatacggttacgcatacatgttattggatgaaagatatttcgcccctg
241 Asp Asp Thr Gly Tyr Ala Tyr His Gly Tyr Trp Met Lys Asp Ile Phe Ala Leu
781 aatacaaatttggtactgcagacgatttgatagcgttggctacggaaattgcataatcg
261 Asn Thr Asn Phe Gly Thr Ala Asp Asp Leu Ile Ala Leu Ala Thr Glu Leu His Asn Arg
841 ggcatgtacttggatattttgtcaatcaactttgtttctcaggatgtcatgcc
281 Gly Met Tyr Leu Met Val Asp Ile Val Asn His Phe Ala Phe Ser Gly Ser His Ala
901 gacgtggactacttgaatattccgttattcgccaggattttcatttcatttgc
301 Asp Val Asp Tyr Ser Glu Tyr Phe Pro Tyr Ser Ser Gtr Asp Tyr Phe His Ser Phe Cys
961 tggattacagattactcgaaatcagacaacgttggcgttggcgacgatact
321 Trp Ile Thr Asp Tyr Ser Asn Gtr Thr Asn Val Glu Gln Cys Trp Leu Gly Asp Asp Thr
1021 gttcctctcggtggacgtcaataccaaacttgcacaccgtggaaaatgtgaaatcatcctgg
341 Val Pro Leu Val Asp Val Asn Thr Gtr Leu Asp Thr Val Lys Ser Glu Tyr Gln Ser Trp
1081 gttcaagaacttataacttatttgcacggcctaagaatttgcacaccgtcaagcac
361 Val Gtr Glu Leu Ile Ala Asn Tyr Ser Ile Asp Gly Leu Arg Ile Asp Thr Val Lys His
1141 gttcgttggatttggcaccattcaagaggctgcaggattacggccgttgg
381 Val Glu Met Asp Phe Trp Ala Pro Phe Gtr Glu Ala Ala Gly Ile Tyr Ala Val Gly Glu
1201 gtattcgacgggtatccatcctacatgtccatcatcaggaaaatcttgcacgggtcttgc
401 Val Phe Asp Gly Asp Pro Ser Tyr Thr Cys Pro Tyr Glu Asn Leu Asp Gly Val Leu
1261 aattatcctgttattatcctgtctcggttgcgttgcggatgtgggtcggtctcc
421 Asn Tyr Pro Val Tyr Tyr Pro Val Val Ser Ala Phe Glu Ser Val Ser Gly Ser Val Ser
1321 tcgttagtcgatattgatacgctcaagtctgaatgcacccacactctccatggc
441 Ser Leu Val Asp Met Ile Asp Thr Leu Lys Ser Glu Cys Thr Asp Thr Leu Leu Gly
1381 tcctttcttagagaatcaagataatccgcgattccctagctacacttctgtgaggttta
461 Ser Phe Leu Glu Asn Gtr Asp Asn Pro Arg Phe Pro Ser Tyr Thr Ser Asp Glu Ser Leu
1441 attaaaaatgcgtatcgcttactatgtctcagacggcattccataatttacgg
481 Ile Lys Asn Ala Ile Ala Phe Thr Met Leu Ser Asp Gly Ile Pro Ile Ile Tyr Tyr Gly

FIG. 1a

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1501 caggagcaaggcctcaatggtaaaccgtccataatcgagaggcgcttggcttacg
501 Glu Glu Gln Gly Leu Asn Gly Asn Asp Pro Tyr Asn Arg Glu Ala Leu Trp Leu Thr
Gln
1561 ggctactccacaacgtcgacgttacaaaatcattgcgtcgatcagattagaaat
521 Gly Tyr Ser Thr Ser Thr Phe Tyr Lys Tyr Ile Ala Ser Leu Asn Glu Ile Arg Asn
Gln
1621 caggctataataaaagatgatacttatctcacatatacagaactgggttatttattcggat
541 Glu Ala Ile Tyr Lys Asp Asp Thr Tyr Leu Thr Tyr Glu Asn Trp Val Ile Tyr Ser Asp
Gln
1681 tccacgacaatagcaatcgaaaggtttacagggaaaccaaataattacgggtctgtca
561 Ser Thr Thr Ile Ala Met Arg Lys Gly Phe Thr Gly Asn Glu Ile Ile Thr Val Leu Ser
Gln
1741 aatctgggaccagtggcagttcgacttgcacacttgcgttgcataacggatataccgca
581 Asn Leu Gly Thr Ser Gly Ser Ser Tyr Thr Leu Thr Leu Ser Asn Thr Gly Tyr Thr Ala
1801 tctagcgttatgagatcttgcacatgcacagctgtgactgtggattcgctctggaaat
601 Ser Ser Val Val Tyr Glu Ile Leu Thr Cys Thr Ala Val Thr Val Asp Ser Ser Gly Asn
1861 ttggcagtgccatgtccagtggctacaaaagtctttatcaggaatcgcaactggtt
621 Leu Ala Val Pro Met Ser Ser Gly Leu Pro Lys Val Phe Tyr Glu Ser Gln Leu Val
Gln
1921 ggctctggaatctgctccatgttagag
641 Gly Ser Gly Ile Cys Ser Met

FIG. 1b

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